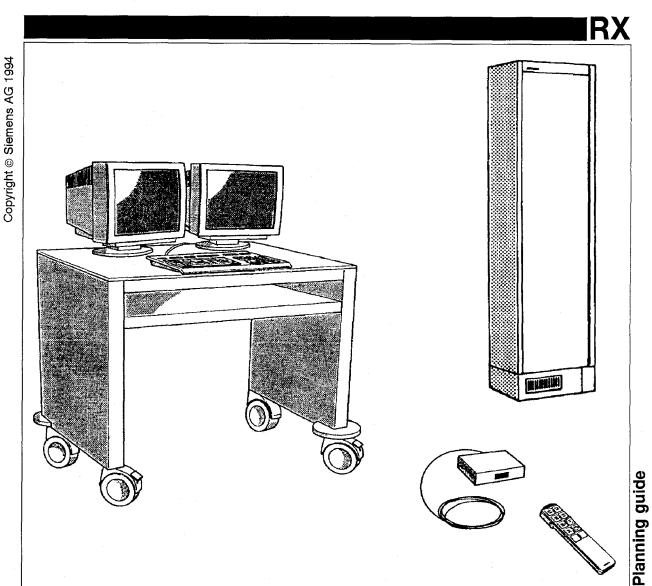
SIEMENS

Fluorospot H



Register 3

RX41-020.021.01.04.02

Replaces: RX41-020.021.01.03.02

11.95

English

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General notes

With the distribution of revision level 04, all preceding Speed Infos and drafts are invalid.

The provisions of the relevant fire protection regulations must be observed for the premises.

When carrying out planning and project organization, the data found in file R A0 must be taken into consideration.

All layouts issued by the Planning Departments must bear a note referring to the installation and delivery conditions of Siemens Medical Engineering Group. The installation and delivery conditions must be submitted with the layouts.

Löchel Weller TD RX 1

Tel. 09131/84 - 5428

TD RX 4

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Hotline 7774

Planning

Planning notes

General notes

- All power lines must be run with shielding.
- Shielded power lines are urgently recommended.
- Run protective ground wire parallel with power lines.
- The shielding of the power line must be connected in the electronics cabinet over the shortest possible path to potential ground (PE).

Power lines belonging to other systems

- Must be run separate (at least 100 cm distance).
- Shielded leads must be used in each case.

Power line connection and PE cabling

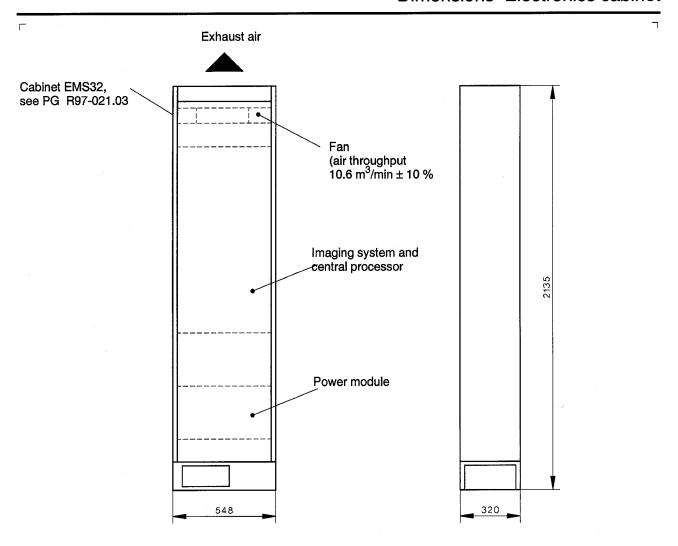
To prevent possible interferences

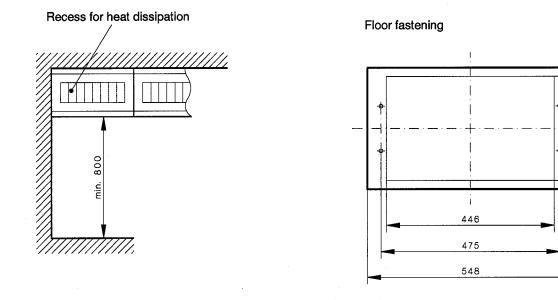
- Observe the building power line connection, see page 2-1.
- Observe the protective ground wire cabling, see page 4-2.

Note:

Fluorospot H and additional equipment are not designed for use in areas where there is an explosion hazard.

Dimensions Electronics cabinet





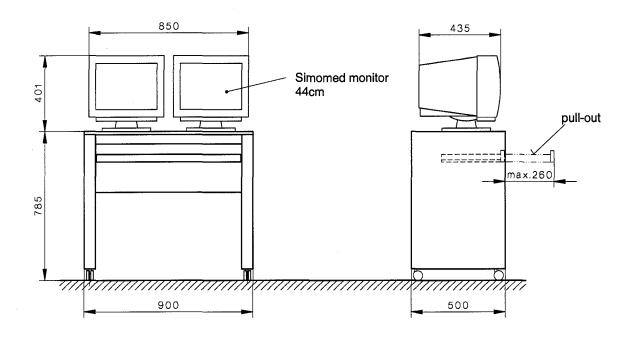
Note:

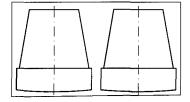
The Fluorospot H electronics cabinet can be installed together with further EMS 32 cabinets. However, 1 m distance must be kept to the generator power cabinet at least.

1:10

Г

e. g. with monitor table (approx. 45 kg without monitor)



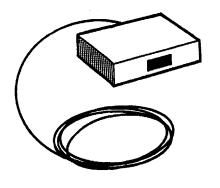


1:20

Note:

The mobile monitor table is an option.

The customer can choose his own table.



25 m or 50 m lang included in delivery

IR - receiver and preamplifier

Casing:

IP 65, Color: light grey

Supply voltage:

12 V DC

Current consumption:

10 mA

Sensitivity with all Volltronic

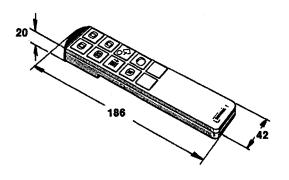
3500-transmitters:

50 m when the transmitter is aligned

to ±10° ambient light ≤ 1000 lux

Range reduction at sun light:

max. 50 %



IR - hand-held transmitter

Casing:

Color: black

42 x 186 x 19 mm

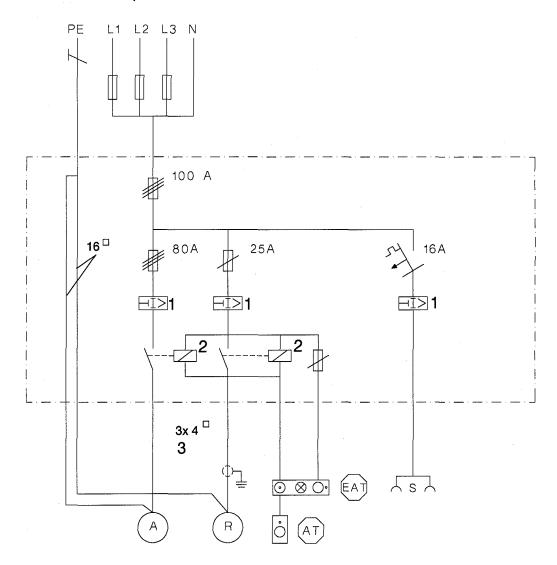
Range:

approx. 50 m with direct emission of

receiver ± 5° and ambient light ≤ 1000 lux

Charing socket for 12 V - battery, can be charged with 18 V charger

Proposal for customer's power connection



- R Fluorospot H Electronics cabinet
- A Generator
- $(\mathsf{A}\mathsf{T})$ Emergency off button with interlocking circuit
- (EAT) On-Off button with pilot lamp
- S grounded socket for Service
- 1 Fault current protective switch $I_{\Delta N}$ 30mA for alternating and pulsating direct currents (surge current proof)
- 2 System contactor
- 3 Note! Connect R via shielded power cable only.

Electrical data	Control cab	Control cabinet		14 cm
Power line connetion	1 ~ 230V 50 Hz 1 ~ 208, 254, 277V 60 Hz	+ 10/-15 % ± 5 % + 10/-15 % ± 5 %	1 ~ 115, 230V 50/60 Hz	+ 10/-15 % ± 1 Hz
Fuse internal	25 A	25 A		nk
Power consumption	max. 1.5 k\	max. 1.5 kVA		10 VA
Heat dissipation	max. 1.5 k	max. 1.5 kW		00 W

Ambient conditions acc. to DIN IEC 601-1	Control cabinet	monitor 44 cm
perm. ambient temperature during operation during storage	+10° - +40° C - 40° - +70° C	+5° - +40° C - 25° - +52° C
perm. relative humidity during operation during storage	15 - 80 % 10 - 90 %	15 - 75 % 10 - 75 %

Weights and noise development	Control cabinet	monitor 44 cm	
Noise development	max. 57 dBA	-	
Weight	max. 186 kg	approx. 22 kg	

Surface color	
Main color	white mottled lacquer; Med surface No. 4146 similar to RAL gray-white 9002
Combination color	plain gray mottled lacquer, Med surface No. 4426 similar to RAL dust-gray 7037

Packing	
largest crate LxBxH	2380 mm x 880 mm x 920 mm
Weight	286 kg

Electrical Installation

Notes on cable routing

Notes on cable routing

Minimum depth of cable duct shall be 60 mm In case of cable crossings, a larger duct might be necessary.

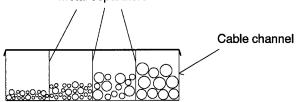
Separate the high voltage cable and power supply leads form the control cables and the video signal leads. (if possible, shielding measures should be provided).

The cable list shown below provides a subdvision into four catergories in accordance with technical safety and funcitonal point of view.

Category 1 (more than 300V)	Category 2 (max. 300 V)	Category 3	Category 4
High voltage cable	Power cables	EK14	Signal cabel
Rotating-anode cable	EK20	EK48	Video cable
Protective ground wire	EK34		Fiber optic cable
Water hose			

Proposal for cable routing

- Cable routing in separate conduits or closed cable ducts
 - The minimum diameter results from the cable list, column "minimum passage"
 - The cable with the largest plug must be be drawn in first
- Separate cable routing in open cable ducts with metal dividers or similar
 Metal separators



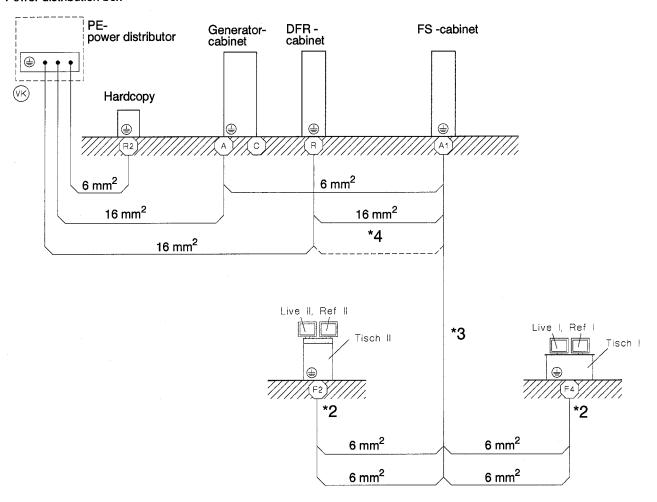
- Calculation of the minimum cross-section
 Σ of the existing cable cross-sections according to the cable list, column "required cable duct"
- Specified bulk factors have been taken into account

┙

Electrical installation

Protective ground wire wiring

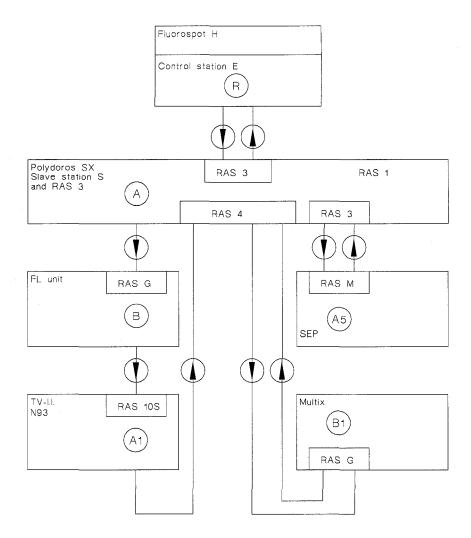
Power distribution box



- *1
 - See installation and setting instructions VID H1X R52-040.033 Page 4-3
 - *2 With monitors X1763/X1765, disconnect the jumper between video ground and
 - *3 Not applicable for Simomed monitors. With Simomed monitors, grounding via power line cable
 - *4 Remove connection, if present.

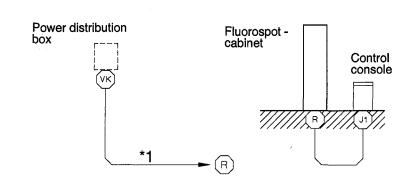
RAS - connection (LWL)

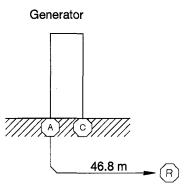
Connect fiber optic cables as shown below.

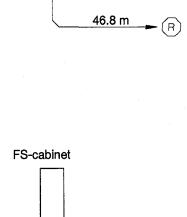


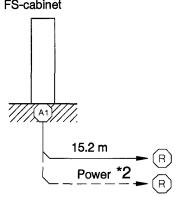
Electrical installation

Survey of fixed points

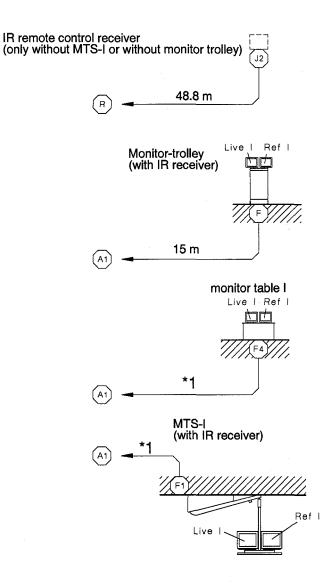


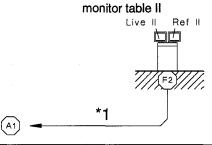






- *1 the lengths correspond to the order form specifications
- *2 In the case of Polystar and Siregraph D340 systems, the Fluorospot cabinet is directly connected to the central connection (ZA) in the TV cabinet. It cannot be connected to the generator directly.





List of fixed points

from fixed point	to fixed point	Cable type and category ()	cable dia [mm]	min. opening Ø [mm]	required cable duct [mm²]	Remarks		
Cabling FL-H								
internal cable length[m]	internal cable length[m]							
A	R 1.2	LWLG (4)	8.0	11	80	RAS		
2.0 A	R 1.2	LWLG (4)	8.0	11	80	RAS		
0.8 R	VK 0.0	NK 3x4 mm ² a(1)	19	20	451	Power cable		
0.8 R	VK 0.0	PE16 mm ² (1)	19	15	97			
1.6 A1	R 0.5	PE16 mm ² (1)	8.8	15	97	·		
1.2 A1	R 1.2	SK111 (4)	8.0	60	80			
1.6 A1	R 1.2	TriBH (4)	7.5	30	71			
1.2 R	J1 0.0	SPK (4)	7.0	40	62	*1		
Cabling IR remote control receiver								
1.2 R	J2 0.0	IRSpe (2)	10	40	125	only with 9816		
Cabling Monitor-trolley								
1.5 A1	F 1.5	SGK (2)	22	25	605	monitor trolley		

Cabling Monitor-trolley table I

1.5	A1		F4	1.5
1.5	A1	<u> </u>	F4	1.5
1.5	A1		F4	1.5
1.5	A1		F4	1.5
1.5	A1		F4	1.5
1.5	A1		F4	1.5

	_				
NK 3x0.75mm ²	(2)	8.5	60	91	monitor table I
NK 3x0.75mm ²	(2)	8.5	60	91	monitor table I
PE6 mm ²	(1)	7.3	15	67	monitor table I
PE6 mm ²	(1)	7.3	15	67	monitor table I
Triax	(4)	7.5	50	70	monitor table I
Triax	(4)	7.5	50	70	monitor table I

^{*1} supplied with along Fluorospot

a = shielded

Electrical installation

List of fixed points

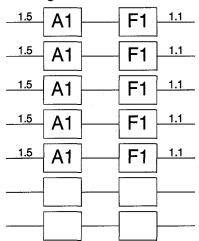
from to fixed point	Cable type and category ()	cable dia.[mm]	min. opening Ø [mm]	required cable duct [mm²]	Remarks	
---------------------	----------------------------	-------------------	------------------------	------------------------------	---------	--

Cabling Monitor-trolley table II

internal cable length[m]			cable le	internal ength[m]
1.5	A1		F2	1.5
1.5	A1		F2	1.5
1.5	A1		F2	1.5
1.5	A1		F2	1.5
1.5	A1		F2	1.5
1.5	A1		F2	1.5

NK 3x0.75	(4)	8.5	60	91	monitor table II
NK 3x0.75	(4)	8.5	60	91	monitor table II
PE 6 mm ²	(1)	7.3	15	67	monitor table II
PE 6 mm ²	(1)	7.3	15	67	monitor table II
Triax	(1)	7.5	50	71	monitor table II
Triax	(1)	7.5	50	71	monitor table II

Cabling MTS-I



NK 2x1.5mm ²	(2)	9.0	20	102	MTS-I
PE 16 mm ²	(1)	8.8	15	97	MTS-I
SPK	(2)	14.5	70	263	MTS-I
Triax	(4)	7.5	50	71	MTS-I
Triax	(4)	7.5	50	71	MTS-I
				1	

Changes as compared to previous version

Changes

0-1	extended
0-2	extended

Page

2-1 Fl description changed

3-1 Technical data adapted

4-2 text changes

4-5 cabling changed

5-1 newly inserted

5-2 newly inserted

Changes as compared to previous version

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